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12. \ A communication system having a first device and

a first device which transmits a message for searching for the second device by radio communication, wherein the first device comprises:

a controller, connected to the main body via a data interface section, which receives the first control information from the main body and which outputs second control information based on the received first control information;

a transmission amplifier, connected to the controller, which amplifies the message based on the second control information and which transmits the amplified message to an antenna so as to transmit the message in accordance with the range set by the main body; and

an antenna control section, connected to the controller and the antenna, which controls an antenna directivity of the antenna based on the second control information output from the controller so as to transmit the message in accordance with the range set by the main body.

13. A communication system according to claim 12,

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controlling one of a transmission amplifier,  
connected to the controller, which amplifies the message

based on the second control information and which transmits the amplified message to an antenna and an antenna control section, connected to the controller and the antenna, which controls an antenna directivity of the antenna based on the second control information output from the controller.

17. A communication apparatus comprising:

5 a main body which sets a range in which a message transmitted from the communication apparatus reaches and which outputs control information in accordance with the set range, wherein the message is for searching for a device as a connection target by radio communication;

10 a controller, connected to the main body via a data interface section, which receives the first control information from the main body and which outputs second control information based on the received first control information;

15 a transmission amplifier, connected to the controller, which amplifies the message based on the second control information and which transmits the amplified message to an antenna so as to transmit the message in accordance with the range set by the main body; and

20 an antenna control section, connected to the controller and the antenna, which controls an antenna directivity of the antenna based on the second control information output from the controller so as to transmit

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the message in accordance with the range set by the main body.

18. A communication apparatus according to claim 17,  
wherein the range set by the main body indicates  
5 a distance from the communication apparatus.

19. A communication apparatus according to claim 17,  
wherein the range set by the main body indicates  
a directivity of the message transmitted from the  
communication apparatus.

20. A communication apparatus according to claim 17,  
wherein the controller has a table which stores the  
first control information output from the main body and  
the controller outputs the first control information to  
one of the transmission amplifier and antenna control  
15 section.

21. A communication system having a first device and  
a second device for communicating with the first device  
through a wireless link, comprising:

the first device including;

20 a first outputting means for outputting a  
message to a first range in which the second device and  
an external device are positioned,

a second outputting means for outputting the  
message to a second range in which the second device is  
25 positioned, the external device positioning out of the  
second range, and

means for selecting one of the first outputting

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means for responding to the message from the

27. A method for setting a wireless link between

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determining one of a first range and a second range in relation to the position of the second device;

receiving a response to the message, from the second device; and

setting the wireless link on the basis of the response.

28. A method according to claim 27,  
wherein the first range represents a distance  
from the first device and the second range represents  
a directivity of the message transmitted from the first  
device.

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